Fluid Adv. Work Supports - 1,300 lb. Cap.

Hytec's fluid advance work supports have a spring loaded plunger which hydraulically extends to contact the workpiece. To support any externally applied loads, the sleeve surrounding the plunger grips the plunger and holds it in place.

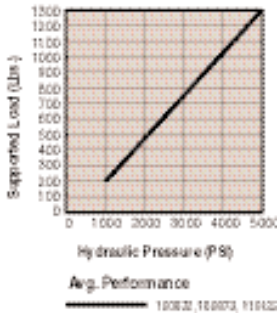
Fluid advance work supports allow the plunger to be retracted out of the way during workpiece load/unload operations. The work support provides its own internal sequencing of a piston which gently raises the plunger until it contacts the workpiece. A spring between the piston and the plunger limits the workpiece contact force.

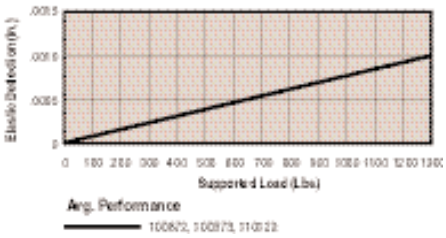
The 100872's threaded body may be compactly manifold mounted in your fixture or choose the 100873 which includes the100872 work support and a mounting base for installation on a flat surface for conventionally plumbed circuits. Both feature fully corrosion resistant construction.

Extremely close manufacturing tolerances hold the plunger perpendicular to the workpiece and eliminates inaccuracies due to plunger movement during lock-up. After lock-up, the plunger is absolutely rigid and limits elastic deflection to .00007" per 100 lbs. of load. For base only, order number 500035.

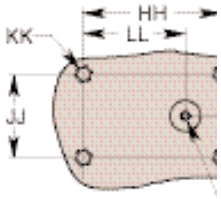
Features:

- 1,300 lbs. capacity @ 5,000 psi max.
- Fully corrosion resistant construction
- Manifold or conventional base mounting
- Filtered breather/rest button
- 1,000 psi minimum recommended pressure

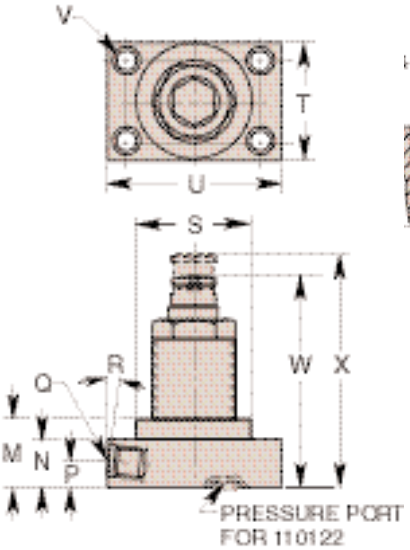




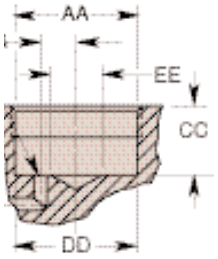
Mating Hole Pattern



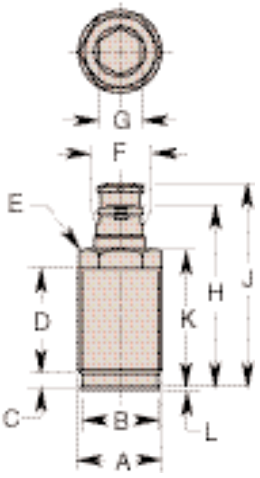
100873



Manifold Mount Detail



100872



Cat. No.	Specifications					Dimensions (In Inches)								
	*Cap. (Lbs.)	Oil Cap. (Cu.. In.)	Max. Flow Rate (Cu. In./Min.)	Advance System	Mounting Configuration	A	†B Seal Dia.	C	D	E Hex.	F Dia.	G Hex.	Operating Range H	Operating Range J
100872	1,300	.04	47	Fluid	Cartridge Manifold	1¼-16 UN	1.171	.334	1.531	1.125	.735	.688	2.850	3.162
100873					Base Conventional		—	—	—				—	—
110122					Base Manifold									

Cat. No.	Dimensions (In Inches)												
	K	L Seal	M	N	P	Q Pressure Port Thd. Size	R Port Angle	††S Dia.	T	U	V Dia.	Operating Range W Retracted	Operating Range X Advanced
100872	2.180	.040	—	—	—	—	—	—	—	—	—	—	—
100873	—	—	1.000	.700	.385	⅞-20 UNF SAE-4	5°	1.688	1.750	2.562	.281	3.162	3.474
110122					—	—	—						

Cat. No.	Mounting Dimensions (In Inches)												
	AA Thd. Size	BB Min. Thd.	CC	DD Dia.	EE Drill Point Dia. Max.	FF Dia.	GG Max.	HH	JJ	KK Thd. Size	LL	MM	NN Pressure Port Dia. Max.
100872	1¼-16 UN	.300	.655 .675	1.182 1.196	.500	.121 .135	.343	—	—	—	—	—	—
100873	—	—	—	—	—	—	—	1.968	1.188	¼-20 UNC	—	—	—
110122											1.456	.594	†††.126

FLUID ADVANCE WORK SUPPORT		
Cat. No.	Approximate Forces Required To Depress Plunger (Lbs.)	
	Fully Extended	Fully Depressed
100872 100873	2.3	2.9

NOTE: *Based on 5,000 psi max. operating pressure.
For optional jam nut see page 60.
For additional flow control valves see pages 105 & 123.
For optional accessories see page 73.

† Seal included.
†† 1.768 dia. min. clearance required.
††† Surface finish to be 63. Finish of 125 acceptable with concentric tool marks only. Finish area to be .438 dia. min. centered on .126 dia. port hole. See operating instructions for additional details.